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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,737	03/23/2004	Vasanth R. Gaddam	US000214A	2557
24737 7590 06/13/2007 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			KIM, KEVIN	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
		·	2611	
		•	MAIL DATE	DELIVERY MODE
			06/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/806,737	GADDAM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kevin Y. Kim	2611				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply	VIC CET TO EVOIDE AMONT	VOLOR THREE VOLOR DAVO				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be to the second will expire SIX (6) MONTHS from the second ABANDON to the second to the secon	ON. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 23 M	l <u>arch 2004</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
4)⊠ Claim(s) 15-20 is/are pending in the application	4)⊠ Claim(s) <u>15-20</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>15-20</u> is/are rejected.						
7) Claim(s) is/are objected to.	mala d'anna d'anna d					
8) Claim(s) are subject to restriction and/o	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>23 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Offic	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	, , , ,					
* See the attached detailed Office action for a list of the certified copies not received.						
. Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar	ry (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	Paper No(s)/Mail I					
Paper No(s)/Mail Date	6) Other:	t diont rippiloalion				

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claim 20 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. There is no description of the "post processor" being "enabled in dependence upon a control parameter in an MPEG header."
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim recites a data stream to be "in substantial conformance with ATSC standards." However, industry standards are subject to change and thus it is not clear which standard(s) is used. Additionally, the degree of "substantial conformance" is not defined.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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6. Claim 15 is rejected under 35 U.S.C. 102(e) as being anticipated by Jafarkhani et al (US 6,542,554).

Referring to Fig. 4, Jafarkhani et al teach a receiver (150) that is adapted to decode trellis encoded signals of different encoding rates, i.e., a first data stream with an encoding rate R1 (by Encoder 110) and a second data stream with a different encoding rate R2 (by Encoder 120). See col.5, lines 34-45. For different encoding rates, different symbol maps and metric tables are required. Since one of the rates, R1 and R2, is greater than the other, the symbol maps uses different number of symbols to decode the decoded signals, thus one having a higher gain than the other.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

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the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claim 16,18,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Jafarkhani et al as applied to claim 15 above and further in view of Limberg (US 5,805,241).

Consider claims 16 and 19. Jafarkhani et al discloses all the subject matter claimed as explained above except for a de-interleaver, a Reed-Solomon decoder, a de-Randomizer coupled to the trellis decoder in Claim 16 and "a subsequent error correction process" in claim 19. Limberg teach receivers that provides a decoded data to de-interleaver, a Reed-Solomon decoder and a de-Randomizer for error correction purposes. See col. 1, lines 32-36. Thus, it would have been obvious to one skill in the art at the time the invention was made to couple a de-interleaver, a Reed-Solomon decoder, a de-Randomizer to the trellis decoder of Jafarkhani et al, i.e., to provide a post-deocode error correction process, as taught by Limberg, for the purpose of reducing transmission error when the transmitted signal was randomized, Reed-Solomon coded and interleaved for forward error correction.

Regarding claim 18, Limberg teaches that the transmitted signal is high-definition television signals, which must be "in substantial conformance with ATSC standards."

10. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jafarkhani et al and Limberg as applied to claim 19 above, and further in view of Klayman et al (US 5,699,365).

Jafarkhani et al and Limberg disclose all the subject matter claimed as explained above except for the error-correcting post processor being "enabled in dependence upon a control parameter in an MPEG header." First, high-definition television signals are compressed ones in

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accordance with MPEG. Klayman et al teaches selectively enabling error correction using a set of operation parameters depending on the channel condition. See col. 12, lines 16-23. Thus, it would have been obvious to one skilled in the art at the time the invention was made to use a control parameter in an MPEG header in the data stream of Jafarkhani et al as modified by Limberg to selectively enable error correction to reduce overhead as taught by Klayman et al.

Information Disclosure Statement

11. The information disclosure statement filed March 23, 2004 fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications listed in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered.

The second page of the IDS is the PTO-892 provided to the applicant during the prosecution of the parent application. A PTO-1449 should be used to list the prior art references for proper recordation of consideration.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on 8AM --5PM M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 8, 2007

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KEVIN KIM
PRIMARY PATENT EXAMINER

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